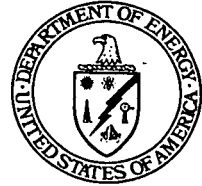




## Department of Energy

### Ohio Field Office Fernald Area Office

P. O. Box 538705  
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MAY 10 2000

Mr. Gene Jablonowski, Remedial Project Manager  
U.S. Environmental Protection Agency  
Region V, SRF-5J  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

DOE-0660-00

Mr. Tom Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East 5<sup>th</sup> Street  
Dayton, Ohio 45402-2911

Dear Mr. Jablonowski and Mr. Schneider:

#### **TASK ORDER IMPLEMENTATION SCHEDULE FOR ABOVE-GRADE DECONTAMINATION AND DISMANTLEMENT OF FOUR COMPONENTS UNDER THE MISCELLANEOUS SMALL STRUCTURES DECONTAMINATION AND DISMANTLEMENT PROJECT AND PROPOSED AMENDMENT**

Reference: "Miscellaneous Small Structures Implementation Plan for Above-Grade Decontamination and Dismantlement," dated August 1998, Section 4.0.

Enclosed, please find the advance notification for the above-grade Decontamination and Dismantlement (D&D) of four components that are planned for remediation under the scope and authority of the Miscellaneous Small Structures (MSS) Project Implementation Plan. Also, enclosed is a proposed amendment to the MSS Implementation Plan that provides the salient elements for accelerated remediation of three Administration Complex components under the scope and authority of the MSS Implementation Plan.

The first attachment provides the implementation schedule for the Task Order, which includes Component 2E (NFS Storage & Pump House), Building 28A (Security Building), Building 28B (Industrial Relations Building), and Building 28N (Main Gate Guard House). The implementation schedule contains three regulatory milestones: 1) Notice to Proceed; 2) Start of Field Activities; and 3) Completion of Field Activities. The second attachment is an amendment to the MSS Implementation Plan to incorporate Buildings 28A, 28B, and 28N into the scope and authority of the MSS Implementation Plan. Component 2E was originally included in the approved MSS Implementation Plan.

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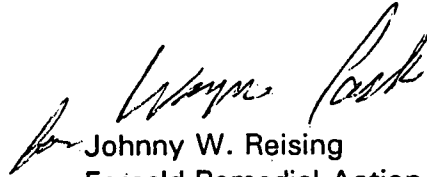
MAY 10 2000

Mr. Gene Jablonowski  
Mr. Tom Schneider

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If you have any questions, please contact John Trygier at (513) 648-3132.

Sincerely,



Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FEMP:Trygier

Enclosures

cc w/enclosure:

N. Hallein, EM-31/CLOV  
J. Trygier, OH/FEMP  
J. Saric, USEPA-V, SRF-5J  
T. Schneider, OEPA-Dayton (three copies of enclosures)  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
R. Vandegrift, ODH  
F. Hodge, Tetra Tech  
AR Coordinator, Fluor Fernald/78

cc w/o enclosure:

L. E. Parsons, OH/AAM  
J. W. Reising, OH/FEMP  
A. Tanner, OH/FEMP  
T. M. Beasley, Fluor Fernald/44-0  
D. Carr, Fluor Fernald/2  
P. R. Courtney, Fluor Fernald/44-0  
T. Hagen, Fluor Fernald/65-2  
L. H. Hampshire, Fluor Fernald/44-0  
J. Harmon, Fluor Fernald/90  
S. Hinnefeld, Fluor Fernald/31  
S. K. Holliday, Fluor Fernald/44-0  
L. K. Howard, Fluor Fernald/44-0  
R. M. Nichols, Fluor Fernald/44-0  
D. Paine, Fluor Fernald/52-4  
G. A. Parks, Fluor Fernald/44-0  
T. A. Poff, Fluor Fernald/65-2  
T. Walsh, Fluor Fernald/65-2  
ECDC, Fluor Fernald/52-7

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**MISCELLANEOUS SMALL STRUCTURES  
DECONTAMINATION AND DISMANTLEMENT PROJECT  
U.S. DEPARTMENT OF ENERGY  
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

**TASK ORDER IMPLEMENTATION SCHEDULE FOR ABOVE-GRADE  
DECONTAMINATION AND DISMANTLEMENT OF FOUR STRUCTURES**

The following Operable Unit 3 Components are included in this Task Order:

- Component 2E: NFS Storage & Pump House – consists of a pump house, four outside tanks, a structural steel supported shield on the north side of the tanks, a catwalk, and miscellaneous piping. (Re: Section 3.1 of the Miscellaneous Small Structures Implementation Plan.)
- Building 28A: Security Building – consists of an irregularly shaped, single-level structure measuring 109 feet x 82 feet x 10 feet high located south of the Health and Safety Building (53A). The building includes the formerly used security turnstiles, which separate Building 28A from Building 28B. (Re: Miscellaneous Small Structures Implementation Plan Amendment, Section 2.1, concurrently submitted with this Task Order schedule.)
- Building 28B: Industrial Relations Building – consists of a single-story structure located between Security Building (28A) and the Administration Building (14A). The building is irregularly shaped, with approximate dimensions of 80 feet x 100 feet x 10 feet high. The building includes a cinder block wall (approximately 90 feet x 8 feet high), which abuts to the Administration Building. (Re: Miscellaneous Small Structures Implementation Plan Amendment, Section 2.2, concurrently submitted with this Task Order schedule.)
- Building 28N: Main Gate Guard Post – consists of a single-story uniformly shaped structure located immediately east of the Security Building (28A) at the southern end of "D" Street. The building has approximate dimensions of 6 feet x 6 feet x 8 feet high. Along with the structure, ancillary chain link fencing and a single turnstile access gate will be removed. (Re: Miscellaneous Small Structures Implementation Plan Amendment, Section 2.3, concurrently submitted with this Task Order schedule.)

A schedule for implementation of these components has been developed and is shown in Figure 1.

**FIGURE 1** Implementation Schedule for D&D of 2E, 28A, 28B, and 28N

**AMENDMENT TO MISCELLANEOUS SMALL STRUCTURES  
IMPLEMENTATION PLAN FOR ABOVE-GRADE DECONTAMINATION AND DISMANTLEMENT**

**MAY 2000**

**1.0 Project Statement**

Three components from the Administration Complex are undergoing accelerated remediation under the scope of the Miscellaneous Small Structures (MSS) Decontamination and Dismantlement (D&D) project. The three components include the following buildings:

- Building 28A Security Building
- Building 28B Industrial Relations Building
- Building 28N Main Gate Guard House

Buildings 28A and 28B are identified in the Operable Units 3 (OU3) Integrated Remedial Design/Remedial Action (RD/RA) Work Plan (DOE 1997) as components assigned to the Administration Complex. Building 28N is a small sentry structure located immediately to the east of Building 28A that is also part of the Administration Complex but had not been listed in the OU3 Integrated RD/RA Work Plan. The schedule for dismantlement of Buildings 28A, 28B, and 28N has been accelerated in advance of the Administration Complex as a result of immediate concerns for structural integrity and the desire to avoid repair costs for the structures. The Administration Complex D&D project is still several years away from execution. This document serves as an amendment to the MSS D&D Project Implementation Plan (DOE 1998). The approved remediation requirements detailed in the implementation plan, including the performance specifications, will apply to Buildings 28A, 28B, and 28N.

The cost for repair and maintenance of these structures, particularly roof repairs, historically has been higher than the average building at the site for buildings of similar age. In recent months, repeated snowfalls and rainstorms collapsed a portion of the roof of Building 28B, forcing the evacuation and relocation of personnel and equipment. Although access to this building has been restricted, there are increasing safety and health concerns regarding stagnant pools of rainwater that have collected, allowing mold and mildew to proliferate. Building conditions would be expected to worsen as warmer weather approaches. The demolition of these structures in the near future would avoid costs associated with continuing facility maintenance and/or structural repairs that would be necessary to eliminate these concerns.

Utility redistribution and D&D will be performed by the on-site Construction Support Contractor that has been providing D&D services for the Miscellaneous Small Structures D&D project.

This document provides the pertinent information required for amending the MSS D&D Project Implementation Plan and the requisite implementation schedule for the particular Task Order prepared for the fieldwork. Section 2 of this document contains component-specific descriptions, characterization, and implementation details developed for D&D of each of the structures. Section 3 provides a summary of debris/waste volume estimates. Section 4 provides several photographs of the structures. An implementation schedule is provided separately under a Task Order Implementation Schedule submittal.

## 2.0 Component-Specific Remediation

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This section presents component-specific background and remediation details for Buildings 28A, 28B, and 28N. Background information provided in this section was obtained primarily from the OU3 Remedial Investigation/Feasibility Study Work Plan Addendum (DOE 1993). Information regarding the remediation approach was obtained from project planning work scope documents/specifications and the OU3 Integrated RD/RA Work Plan (DOE 1997).

### 2.1 Building 28A – Security Building

**Background** – Building 28A (Security Building) is an irregularly shaped, single-level structure measuring 109 feet x 82 feet x 10 feet high. It is located south of the Health and Safety Building (53A). Building 28A is constructed of cinder block walls supported on concrete footers with poured concrete floors. The building includes the formerly used security turnstiles, which separate Building 28A from 28B. Building 28A served the site as headquarters for on-site security. It has housed several security offices, a communication center, and a classified document vault.

**Characterization** – Building 28A contains approximately 509 linear feet of friable ACM pipe insulation and 1,600 square feet of non-friable ACM floor tile. No lead materials or other hazardous/mixed wastes are present. Radiological contamination was evaluated by conducting radiological surveys. Minimal fixed radiological contamination has been documented in an electrical chase, the built-up roof, and floor medium.

#### **Remediation Tasks:**

**Preparatory Actions** – No hold-up or legacy waste (inventory) was ever present in Building 28A. Other than standard facility shutdown work, such as utility disconnections and removal of salvageable equipment, no preparatory actions will be necessary.

**Asbestos Removal** – approximately 509 linear feet of friable ACM pipe insulation and 1,600 square feet of non-friable ACM floor tile in Building 28A will be removed. Pre-D&D surveys are currently underway to assess potential ACM in the built-up roof and wallboard. ACM removal work will be performed in accordance with the work scope condition/specification for asbestos removal (Specification Section 01516 – Asbestos Abatement).

**Surface Decontamination** – Efforts to remove radiological contamination are not anticipated since no production processes occurred in the building. Areas found to have fixed contamination will be locked down to ensure containment. Loose material contained in the heating, ventilation, air conditioning (HVAC) system and other building cavities will be surveyed for removable radiological contaminants that may have been deposited. The built-up roof will be maintained intact to the greatest extent to minimize exposed (unfixed) internal surfaces. Applicable details from Specification Section 01517 (Removing/Fixing Radiological Contamination) have been incorporated into the project work scope for the D&D of this structure.

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Above-Grade Dismantlement – Equipment/systems removal activities will be performed in accordance with the work scope conditions from applicable requirements for Equipment/Systems Removal (Specification Section 15065) and actual building demolition work will be performed in accordance with the requirements for Structural Steel Dismantlement (Specification Section 05126) and Concrete/Masonry Removal (Specification Section 03315). The preferred methods for structural dismantlement are use of a trackhoe shear, trackhoe excavator and/or dozer. Due to the potential for fugitive dust emissions during structural dismantlement, the building surfaces will be pre-wetted and continually wetted during demolition.

## 2.2 Building 28B – Industrial Relations Building

**Background** – Building 28B (Industrial Relations Building, formerly known as the Human Resources Building) is a single-story structure located adjacent and to the west of the Security Building (28A) and immediately east of the Administration Building (14A). The building is irregularly shaped, with approximate dimensions of 80 feet x 100 feet x 10 feet high. Building 28B is constructed of cinder block walls supported on concrete footers with poured concrete floors. The building includes a cinder block wall (approximately 90 feet x 8 feet high), which abuts to the Administration Building. Building 28B served the site as offices for Human Resources, DOE Inspector General and, most recently, Industrial Relations personnel. No processes occurred in this building and therefore no contamination is expected.

**Characterization** – Building 28B contains approximately 70 linear feet of friable ACM pipe insulation and 12,704 square feet of non-friable ACM floor tile. No lead materials or other hazardous/mixed wastes are present. Radiological contamination was evaluated by conducting radiological surveys. Minor levels of fixed radiological contamination were found in the floor medium during the OU3 Remedial Investigation.

### Remediation Tasks:

**Preparatory Actions** – Hold-up or legacy waste (inventory) were not present in Building 28B. Other than standard facility shutdown work, such as utility disconnections, no preparatory actions will be necessary. All salvageable equipment was removed during facility abandonment.

**Asbestos Removal** – Approximately 70 linear feet of ACM pipe insulation and 12,704 square feet of non-friable ACM floor tile located in Building 28B will be removed. Pre-D&D surveys are currently underway to assess potential ACM in the built-up roof and wallboard. ACM removal work will be performed in accordance with the work scope condition/specification for asbestos removal (Specification Section 01516).

**Surface Decontamination** – Surface decontamination efforts are not anticipated since process operations did not occur in this structure. The HVAC system and other building voids will be surveyed for radiological contaminants that may have been deposited. Applicable details from Specification Section 01517 (Removing/Fixing Radiological Contamination) have been incorporated into the project work scope for this structure.

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Above-Grade Dismantlement – Equipment/systems removal activities will be performed in accordance with the work scope conditions from applicable requirements for Equipment/Systems Removal (Specification Section 15065) and actual building demolition work will be performed in accordance with the requirements for Structural Steel Dismantlement (Specification Section 05126) and Concrete/Masonry Removal (Specification Section 03315). The preferred methods for structural dismantlement are use of a trackhoe shear, trackhoe excavator and/or dozer. Due to the potential for fugitive dust emissions during structural dismantlement, the building surfaces will be pre-wetted and continually wetted during demolition.

### 2.3 Building 28N – Main Gate Guard Post

**Background** – Building 28N (Main Gate Guard Post) is a single-story structure located immediately east of the Security Building (28A). Demolition scope includes an ancillary chain link fencing and a single turnstile access gate. The building is uniformly shaped, with approximate dimensions of 6 feet x 6 feet x 8 feet high. Building 28N is constructed of cinder block walls from grade to a height of four feet, metal-framed windows and roof above, and a metal door. The building served as a security checkpoint for vehicular traffic into and out of the controlled area of the site. No processes occurred in this building and therefore no contamination is expected.

**Characterization** – Building 28N does not contain any ACM, lead materials, or other hazardous/mixed wastes. Radiological contamination was evaluated by conducting radiological surveys. Radiological contamination was not detected.

#### **Remediation Tasks:**

**Preparatory Actions** – Hold-up or legacy waste (inventory) were not present in Building 28N. Other than standard utility disconnections, no preparatory actions will be necessary.

**Surface Decontamination** – Surface decontamination efforts are not anticipated since process operations did not occur in this structure.

Above-Grade Dismantlement – Equipment/systems dismantlement activities will be performed in accordance with the work scope conditions derived from applicable requirements in Specification Section 05126 (Structural Steel Dismantlement) and Concrete/Masonry Removal (Specification Section 03315). The preferred method for structural dismantlement is use of a trackhoe shear, trackhoe excavator and/or dozer. Although a Building 28N is a minor structure, efforts to prevent/minimize fugitive dust emissions will be employed by wetting building surfaces during concrete/masonry dismantlement.



### 3.0 Debris/Waste Volume Estimates

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Initial debris volume estimates for Buildings 28A, 28B, and 28N are listed below. Volume estimates for Buildings 28A and 28B are based on initial OU3 Remedial Investigation quantities used in waste management planning for the site. Detailed take-off estimates using architectural drawings are currently underway under the D&D planning process and will be entered into the project file to supersede these original estimates.

- Category A (Structural Steel): 100 bulked cubic yards
- Category B (Inaccessible Metals): 113 bulked cubic yards
- Category D (Painted Light Gauge Metals): 23 bulked cubic yards
- Category E (Concrete): 505 bulked cubic yards
- Category G (Non-Regulated ACM): 25 bulked cubic yards
- Category H (Regulated ACM): 4 bulked cubic yards
- Category I (Miscellaneous Materials): 346 bulked cubic yards

An evaluation of Category A debris (Structural Steel) was performed to determine whether alternative material disposition (e.g., recycling) may be a viable option. Due to the documented presence of some fixed radiological contamination on some building surfaces, material release would have to include a decontamination step. The Decision Methodology evaluation process for disposition alternatives, which was documented in Appendix B of the MSS Implementation Plan, was applied to the estimated 388 tons of structural steel (weight equivalent for 100 bulked cubic yards) using the most current unit prices (documented in the Plant 6/East Warehouse Complex Implementation Plan, DOE 1999). The evaluation revealed that On-Site Disposal would cost approximately \$31,000. The nearest alternative (Vendor Material Release Facility) had a cost of approximately \$318,000, which equates to a cost differential of 1,025 percent. Due to the large cost differential, the chosen disposition route for Category A debris is the OSDF.

### 4.0 Photographs

Figures 1 through 6 provide various exterior views of Building 28A, 28B, and 28N.

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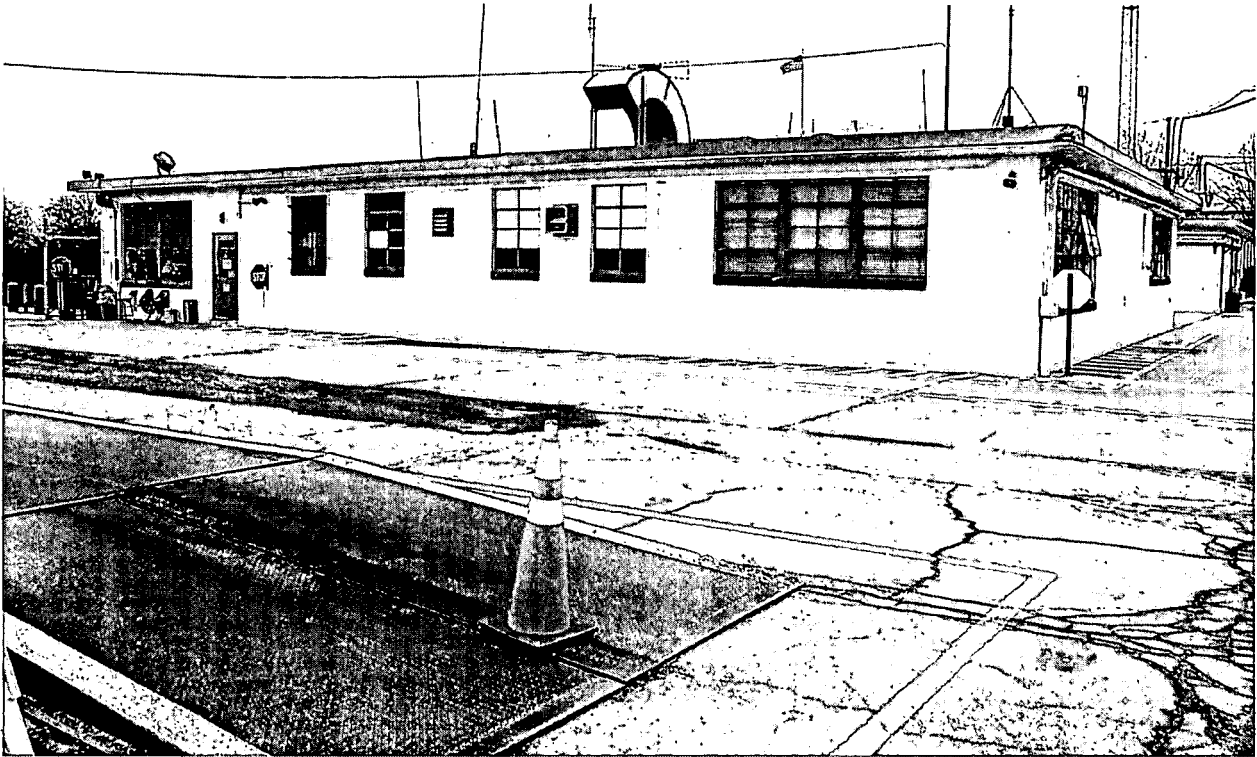


FIGURE 1 Building 28A, Exterior View From East



FIGURE 2 Building 28A Turnstiles, Exterior View From North

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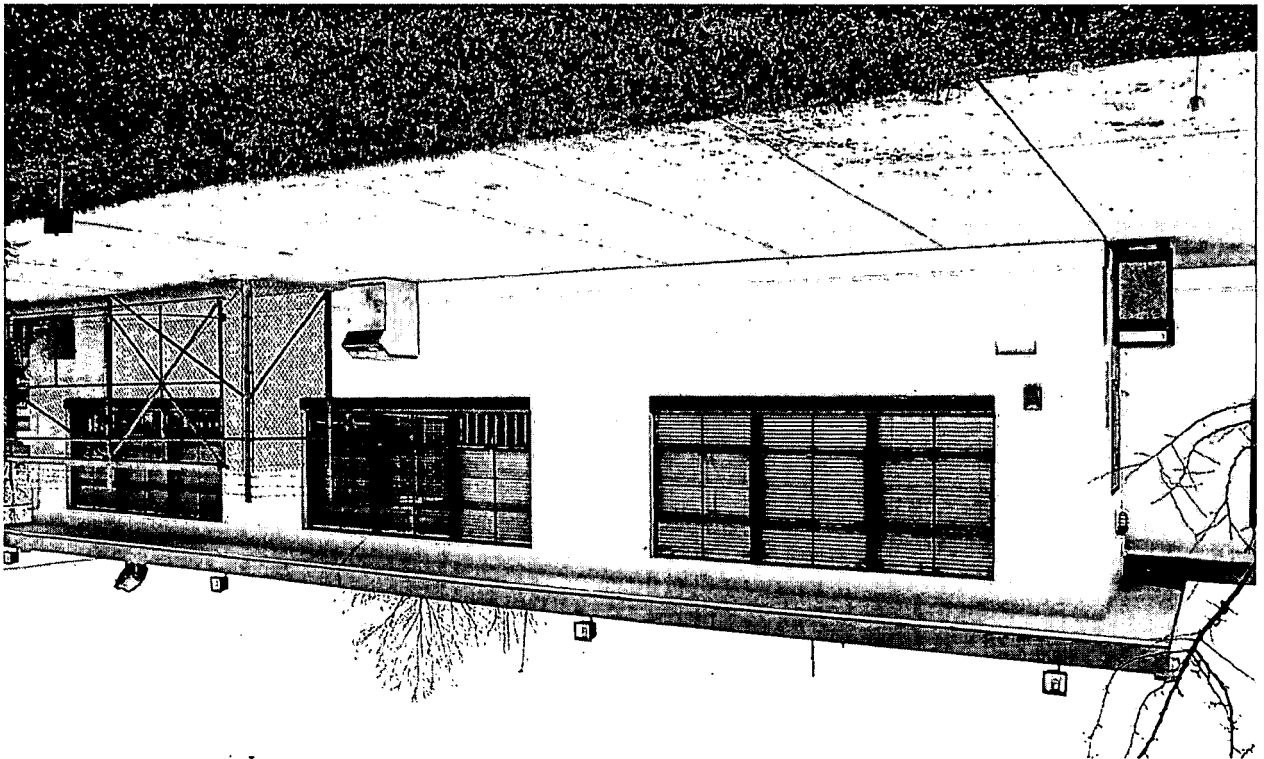


FIGURE 3 Building 28A, Exterior View From South

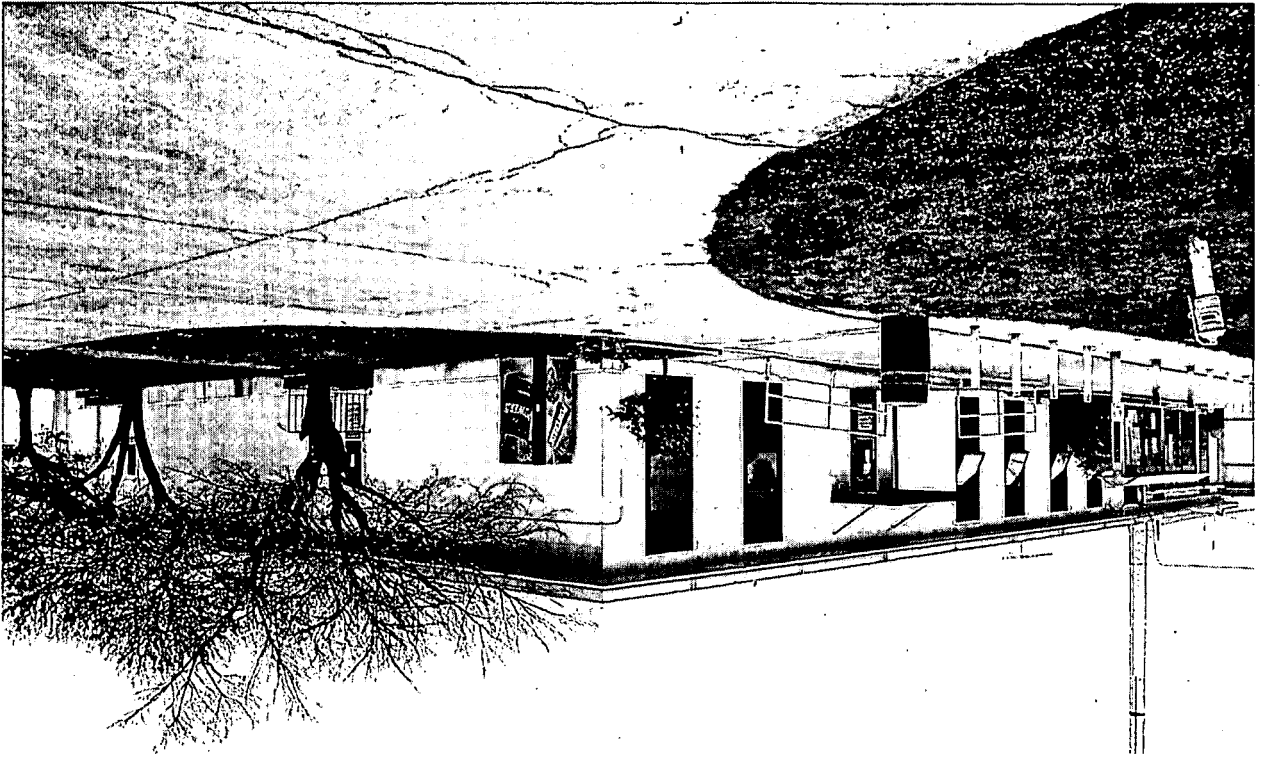


FIGURE 4 Building 28B, Exterior View From Northwest

FIGURE 6 Building 28N, Exterior View From Southwest

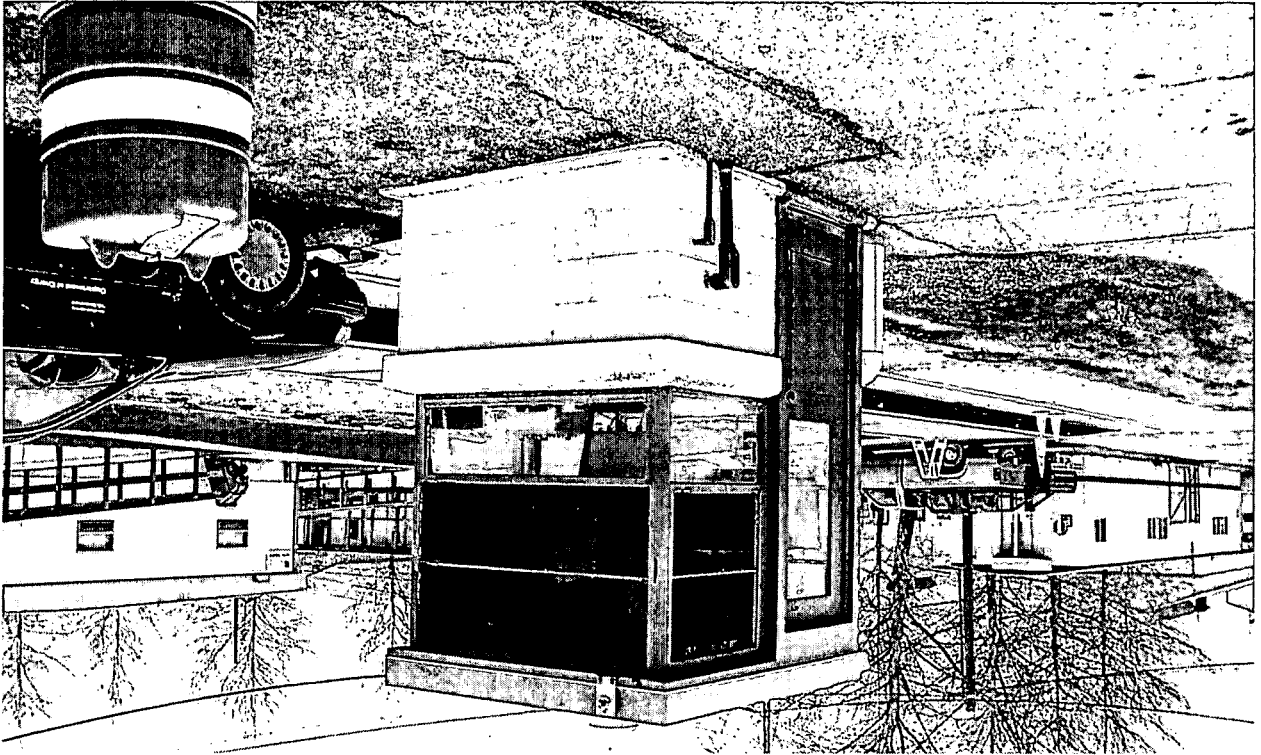
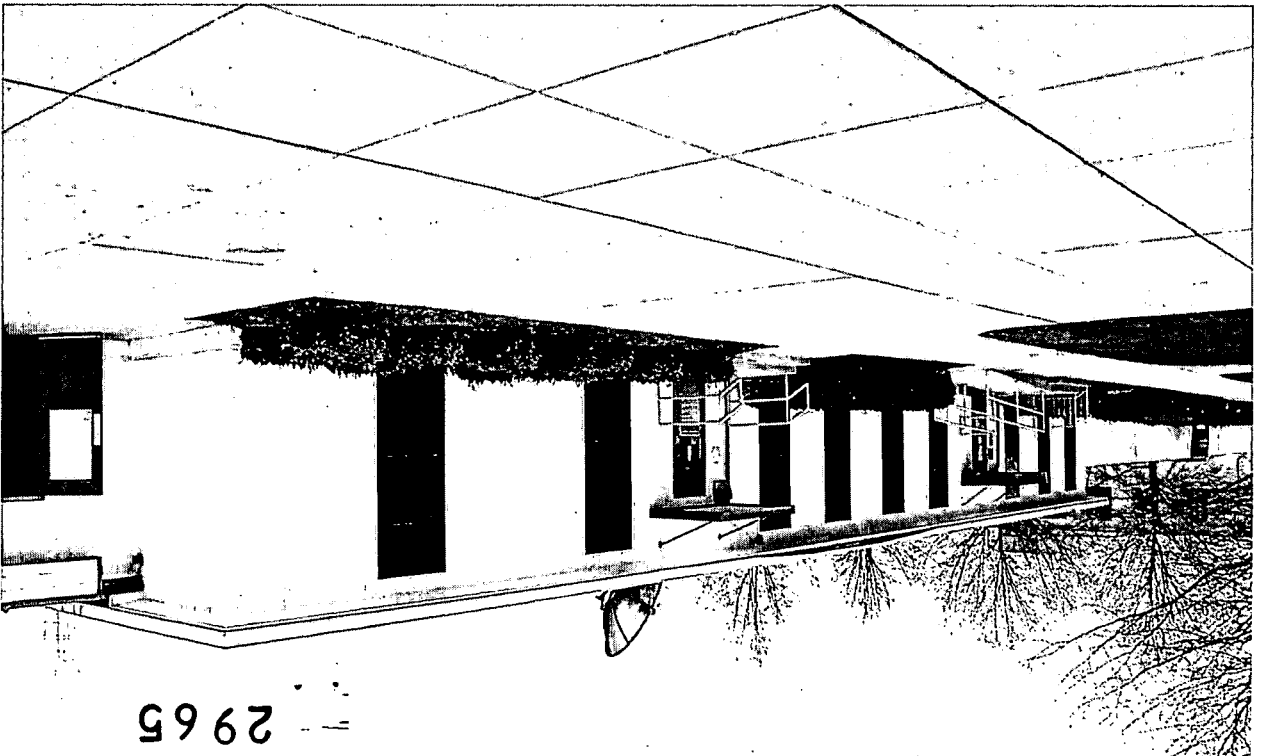


FIGURE 5 Building 28B, Exterior View From Southeast



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Amendment to Miscellaneous Small Structures  
Implementation Plan for Above-Grade D&D

ECDC Doc. Control 3-1751-PL-0001 (Rev. 0)  
May 2000